

# ¿Eclipse anular de sol o *Un águila que devora una serpiente?*

***Reflexiones sobre los asentamientos urbanos en  
Mesoamérica desde la perspectiva de la  
arqueoastronomía***

M en Arq. Oscar Olivo Hernández

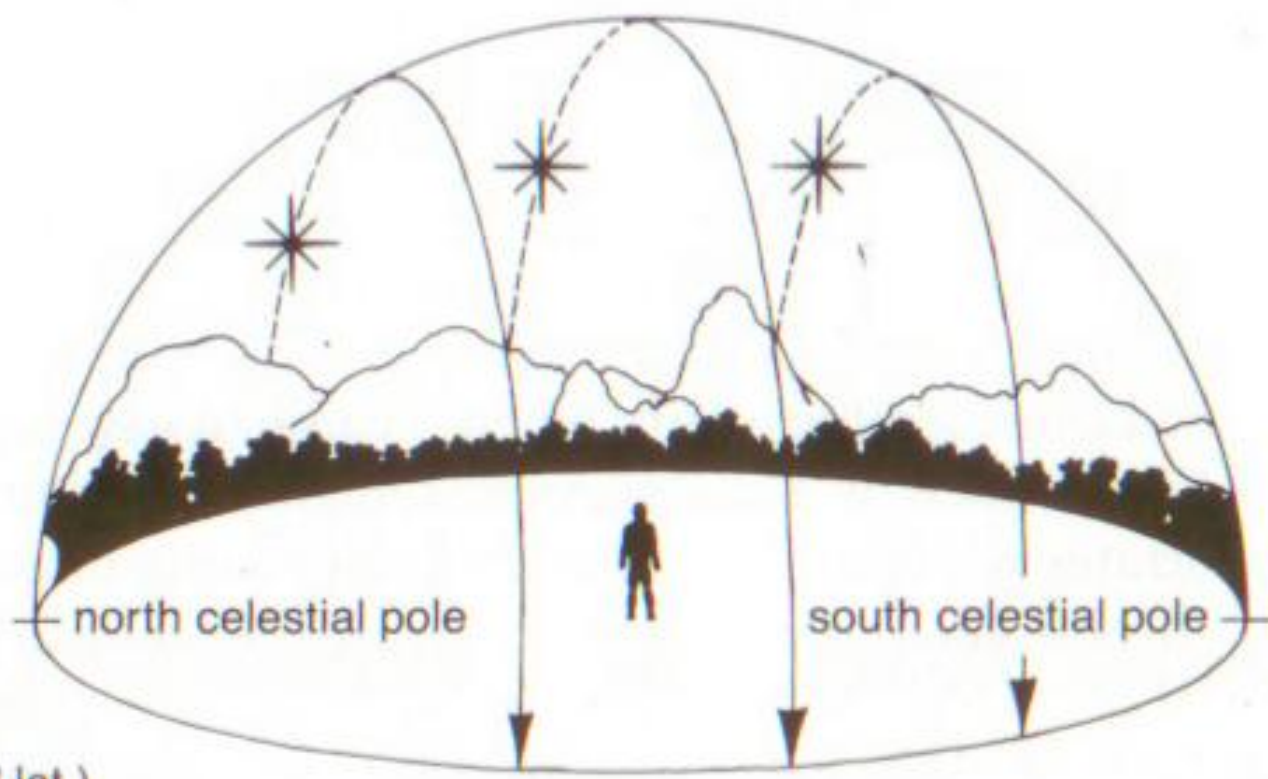
[olivo@huatulco.umar.mx](mailto:olivo@huatulco.umar.mx)

V Seminario de Urbanismo Internacional



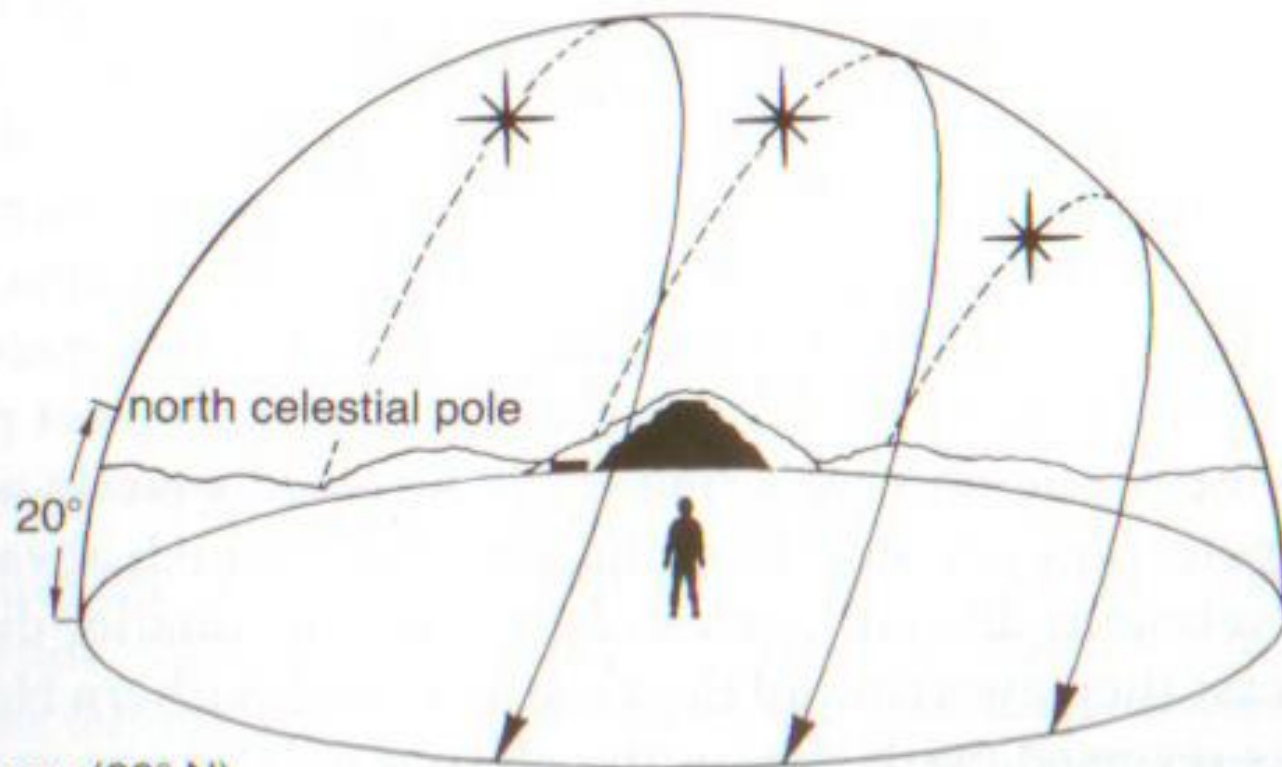




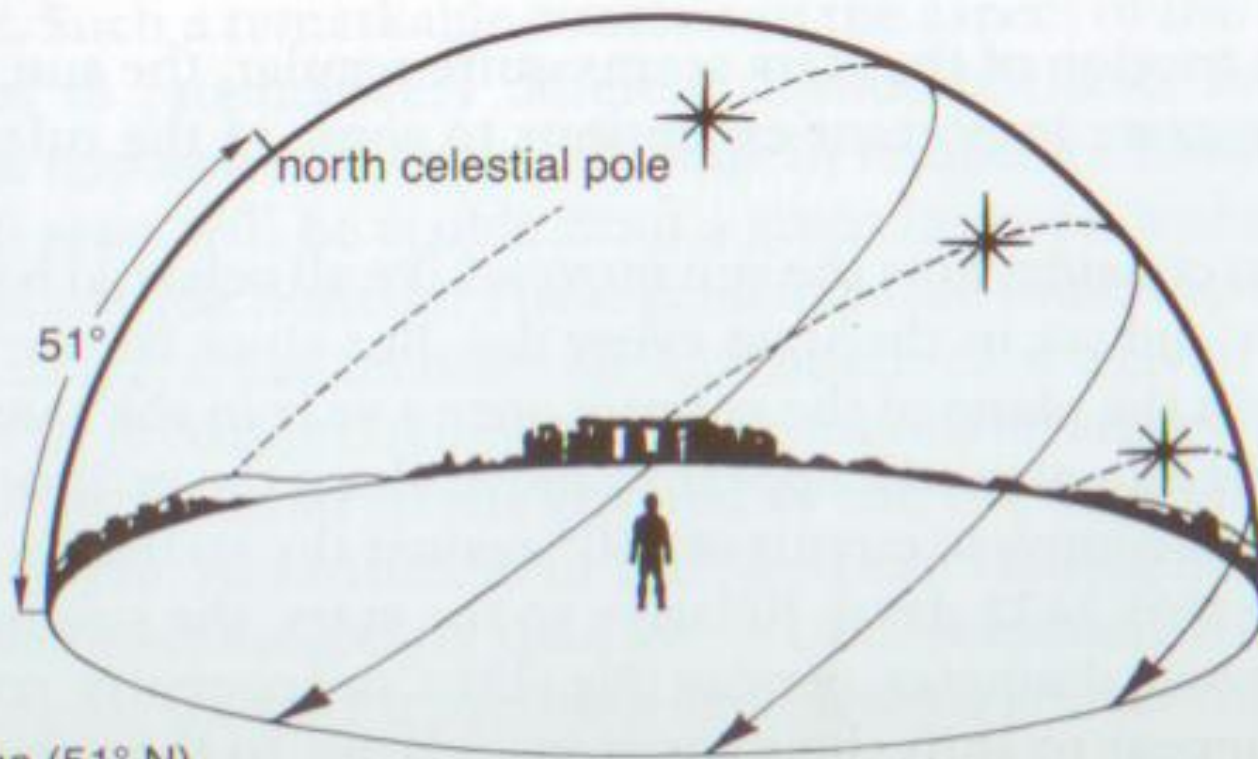


equator (0° lat.)

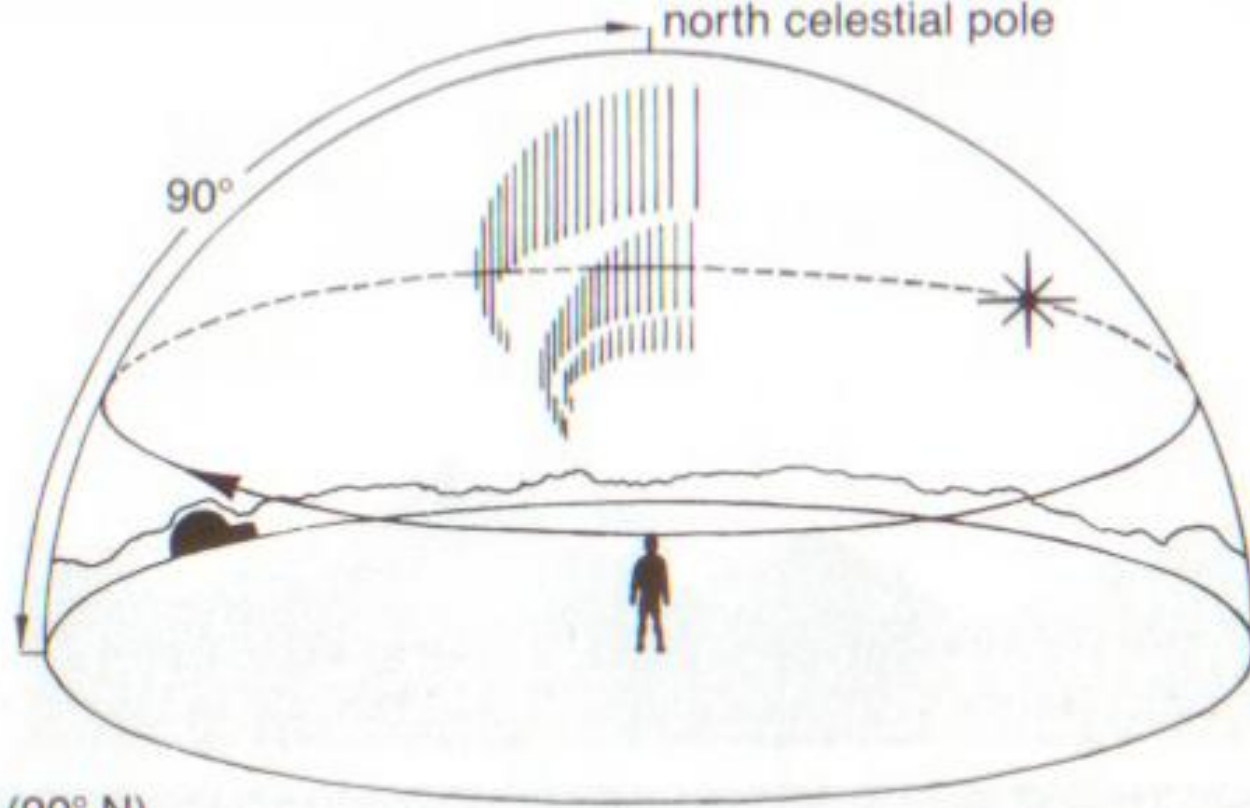




Teotihuacan (20° N)



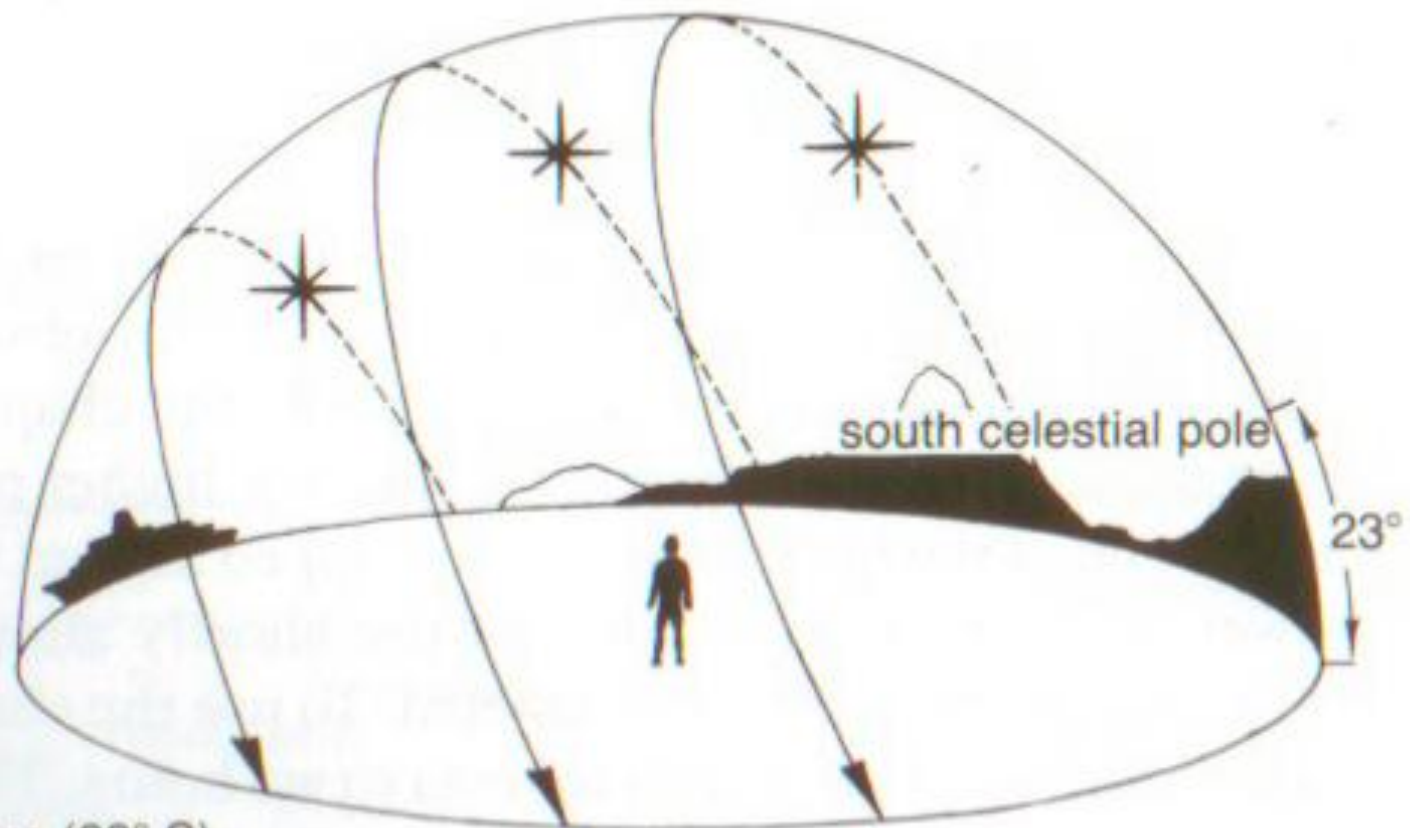
Stonehenge ( $51^\circ$  N)



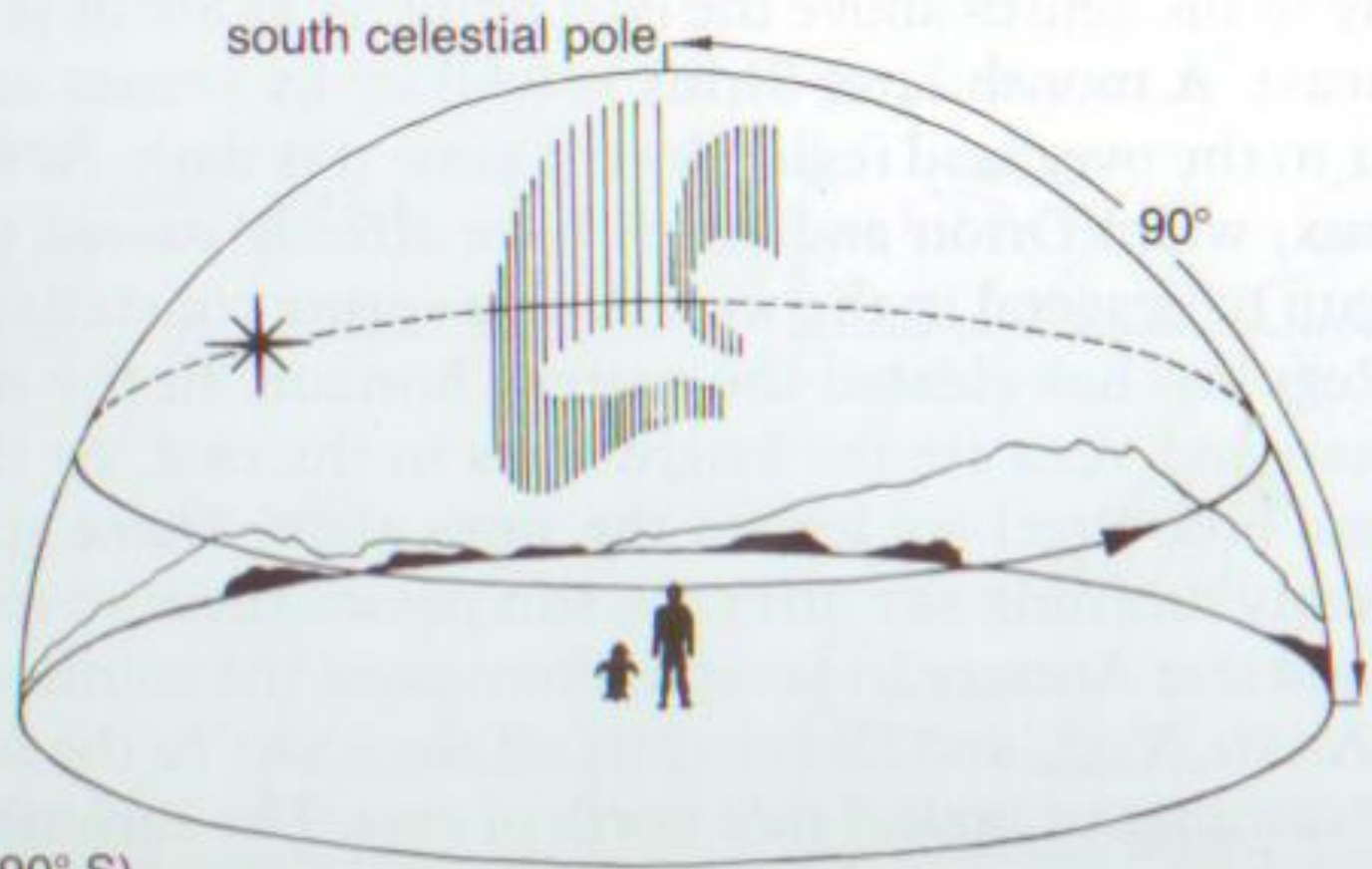
North Pole ( $90^\circ$  N)



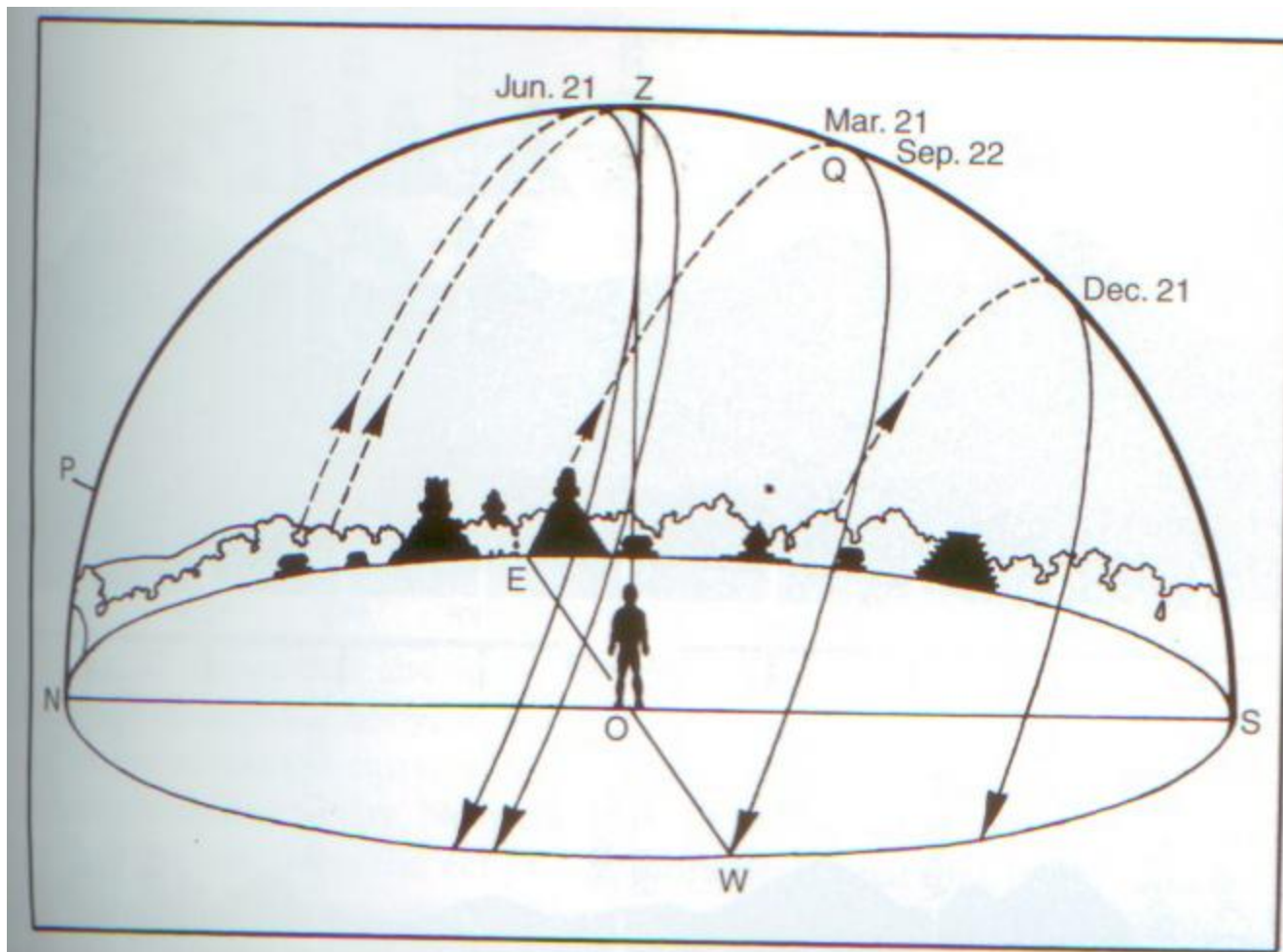


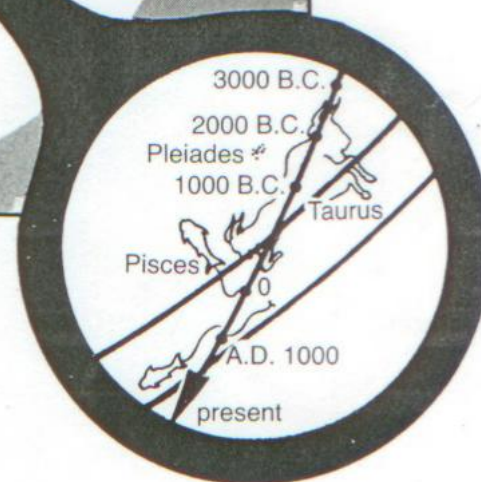
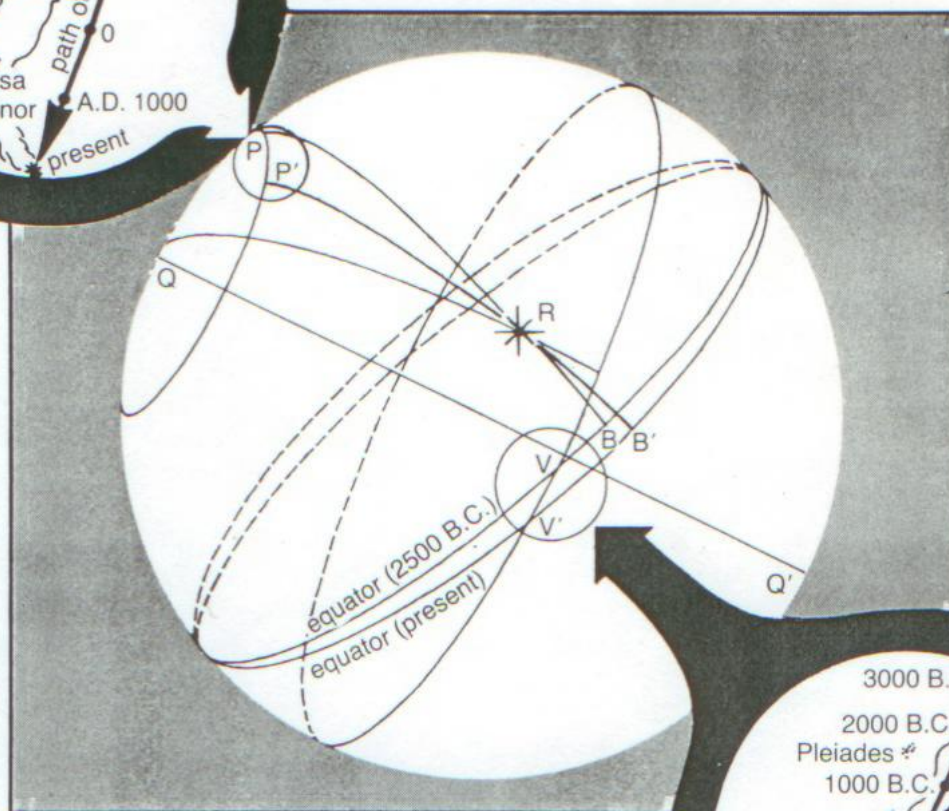
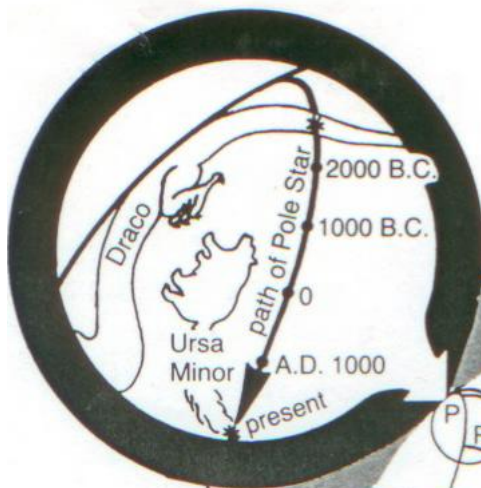


Rio de Janeiro (23° S)

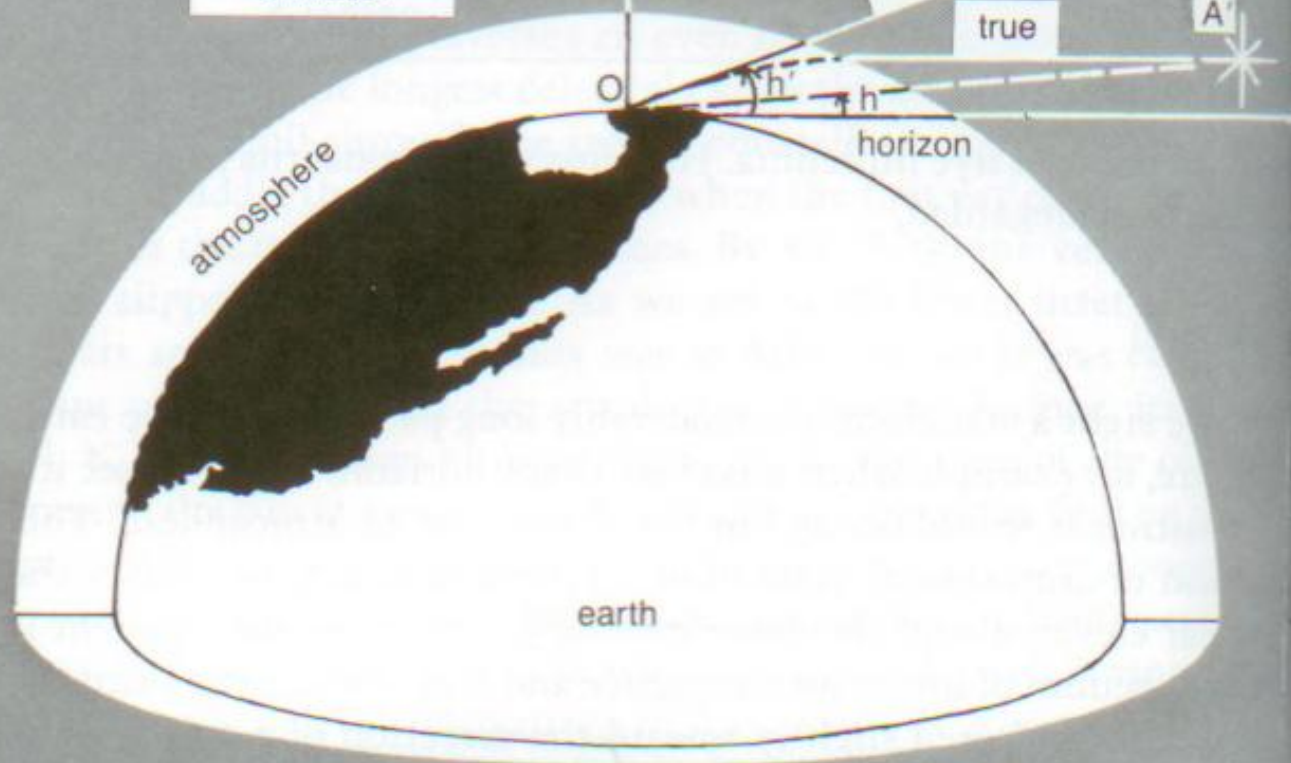
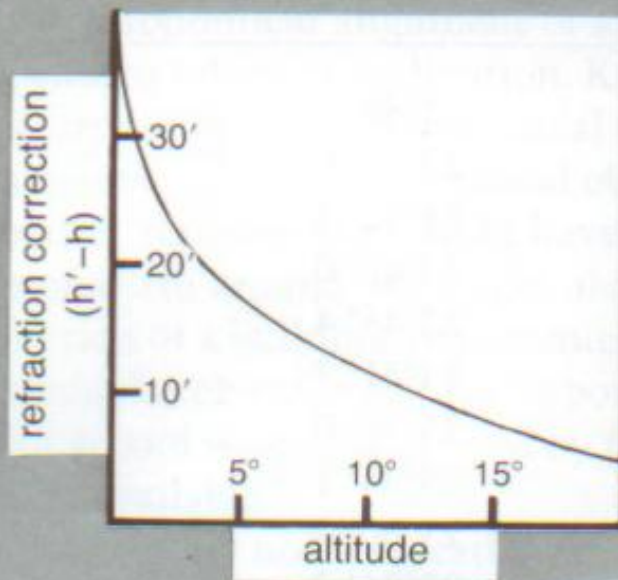


South Pole ( $90^\circ$  S)

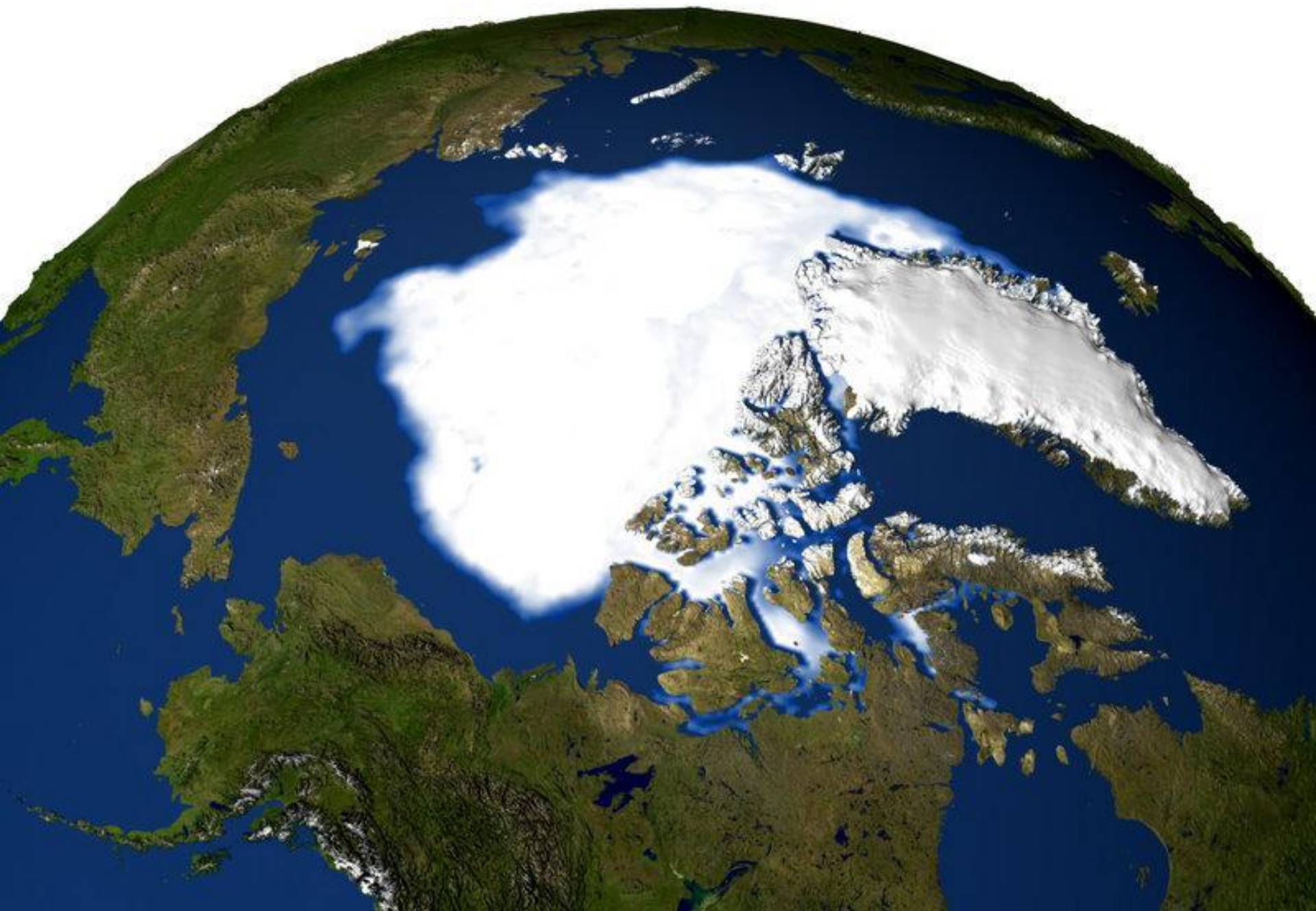


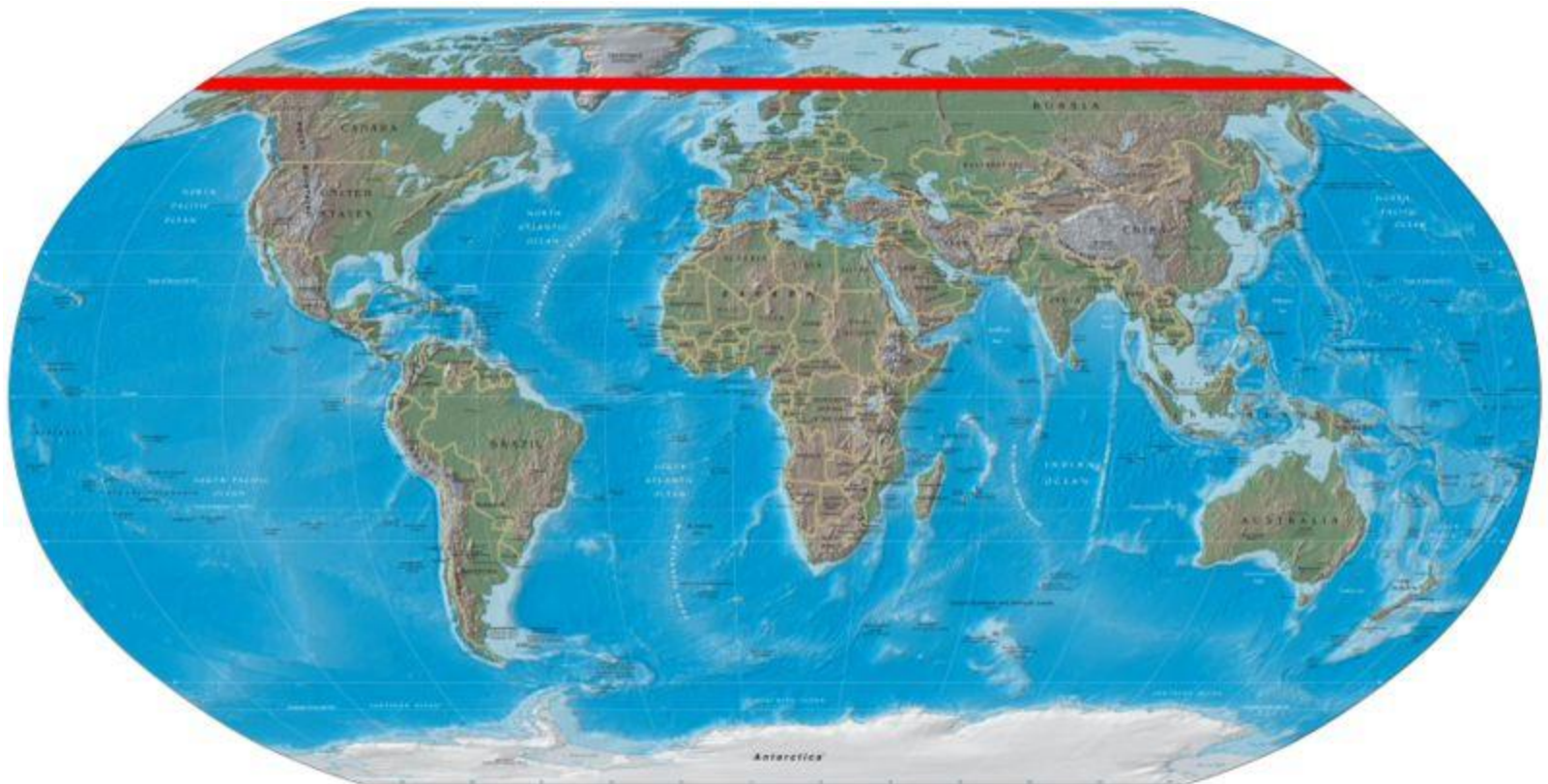
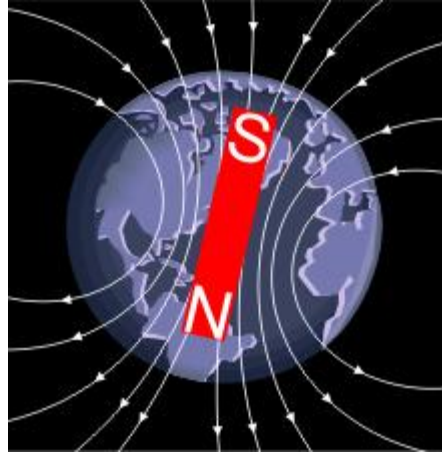




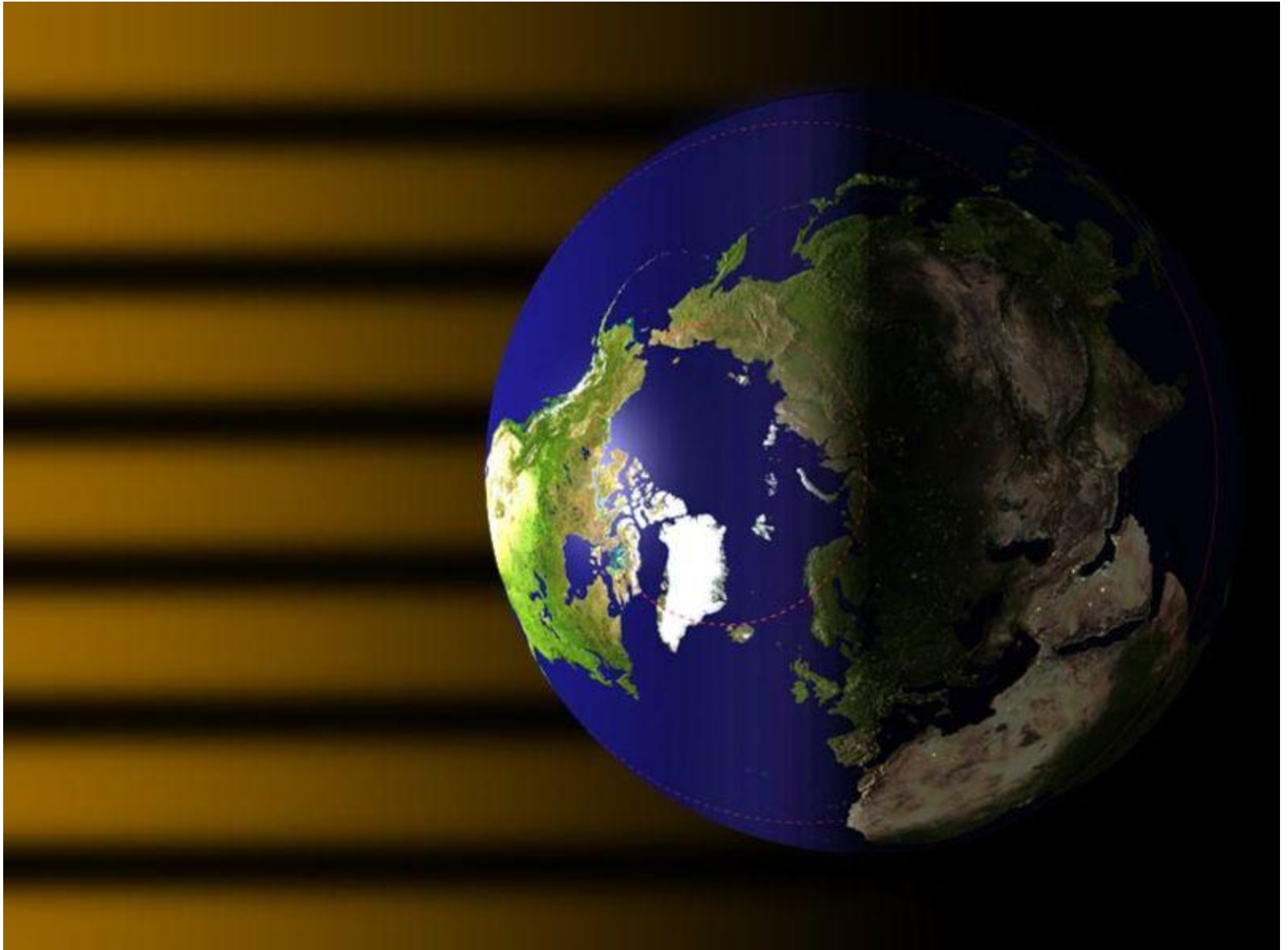




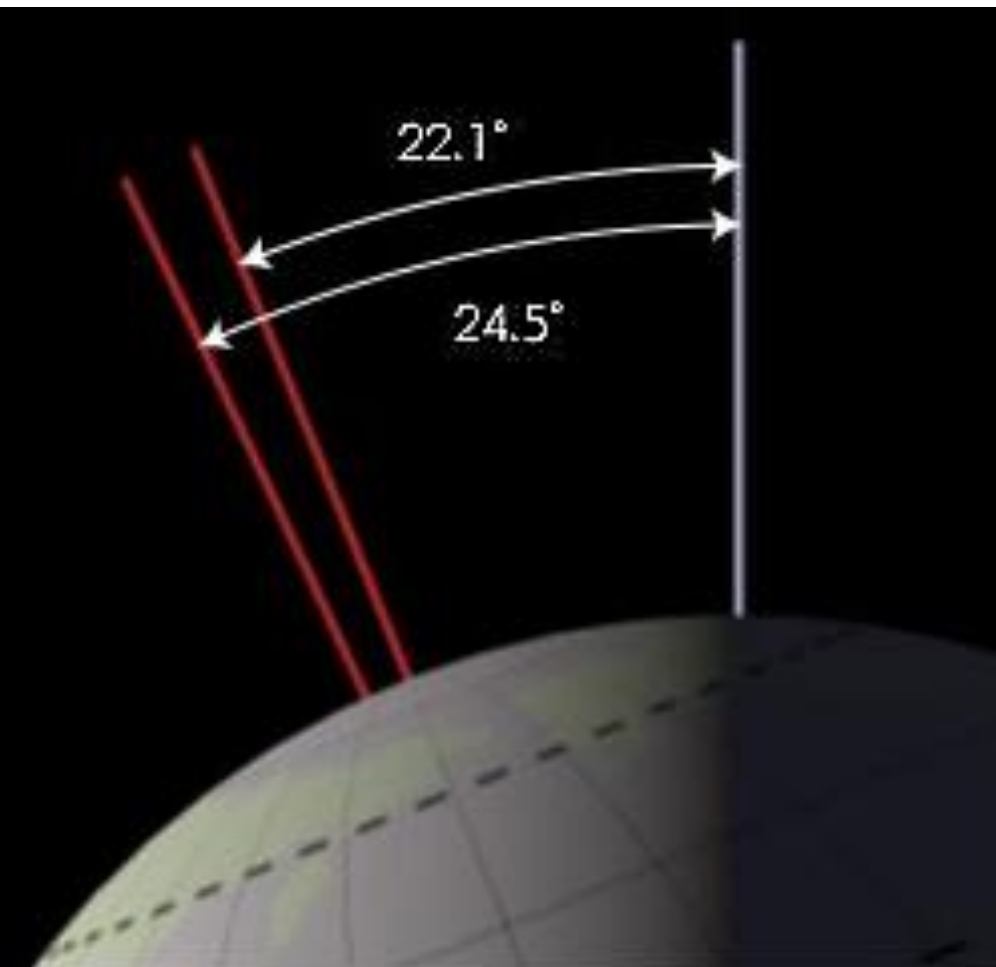


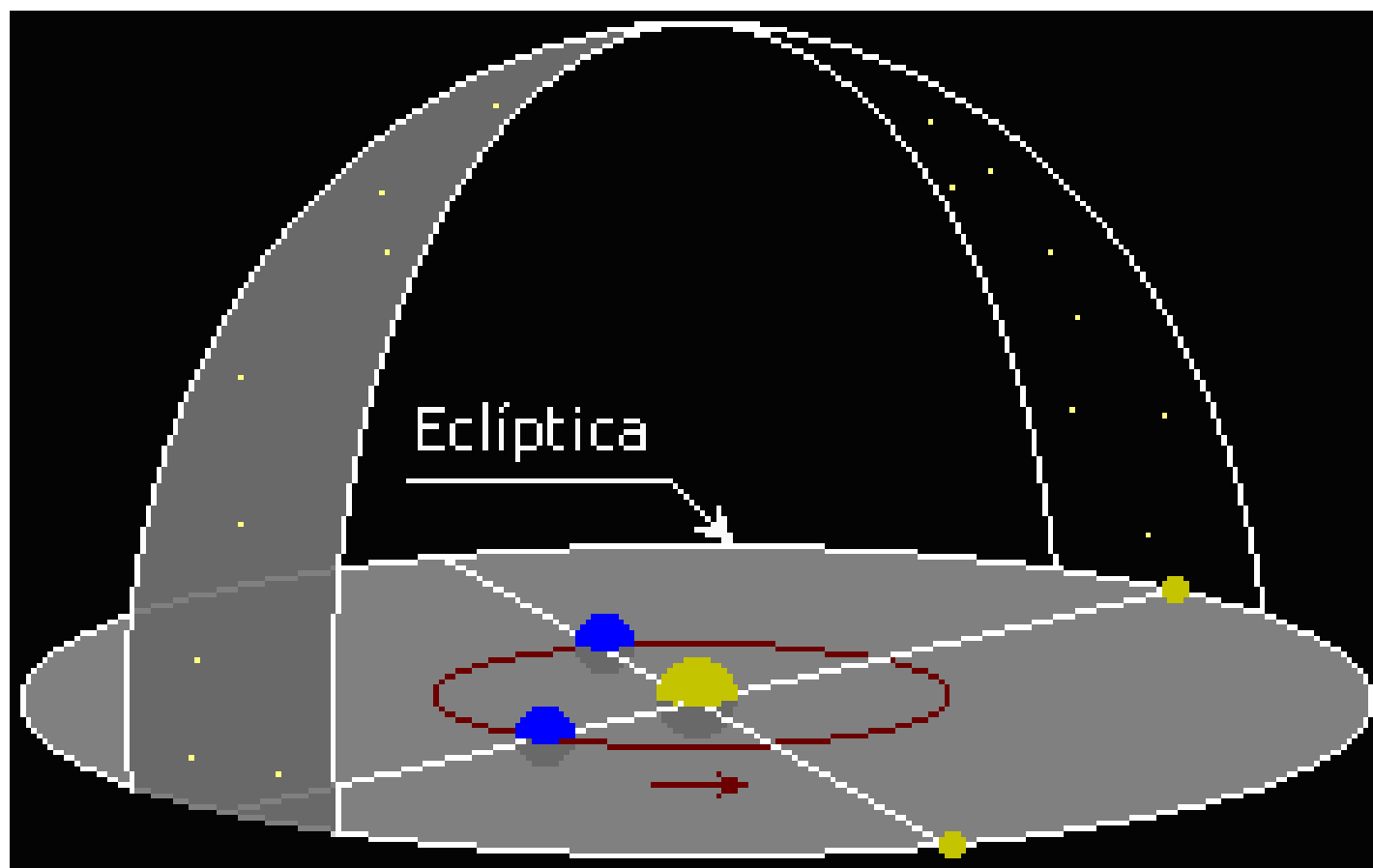
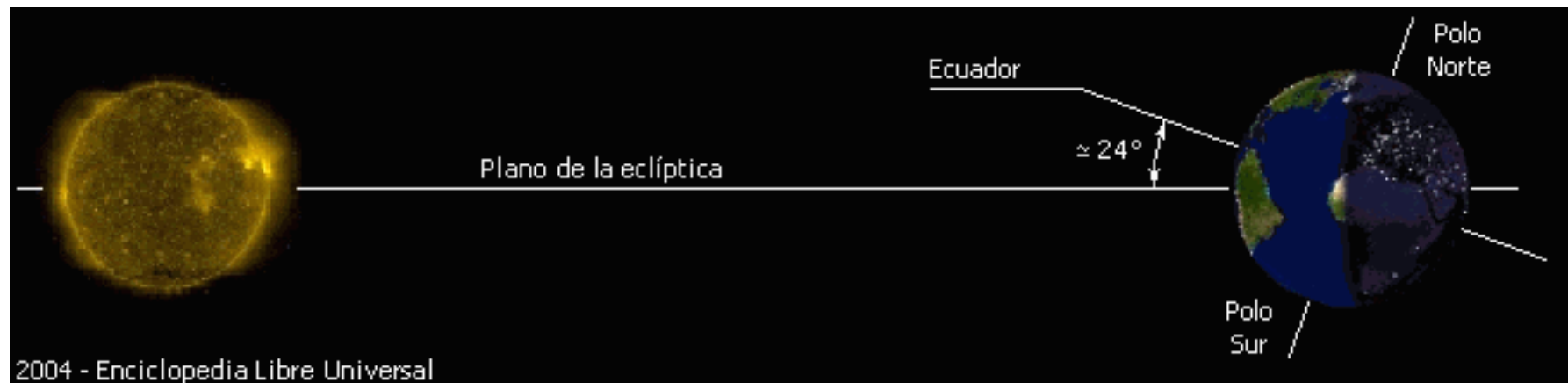






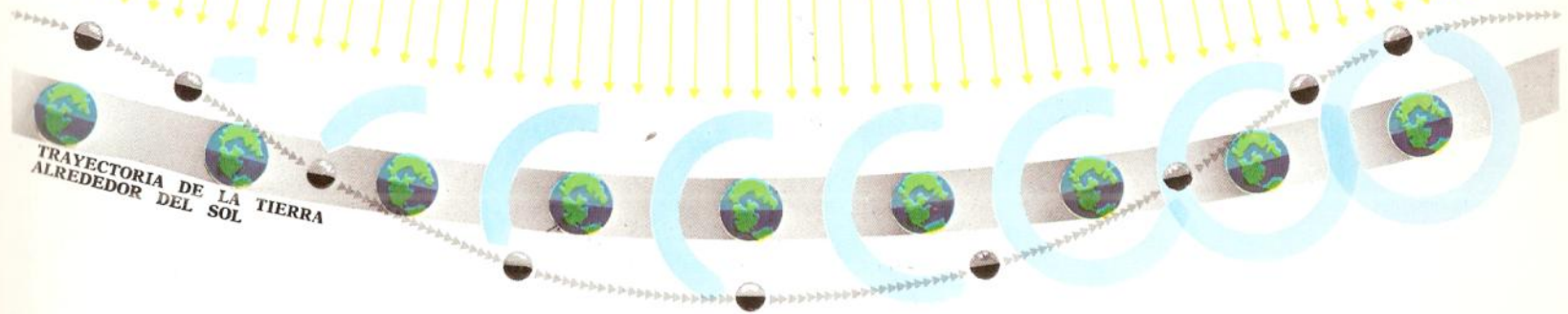
# Eje Polar y ángulo de precesión







Las flechas alinean a la Tierra y la Luna con respecto al Sol, que está a una distancia de 149.500.000 kilómetros.



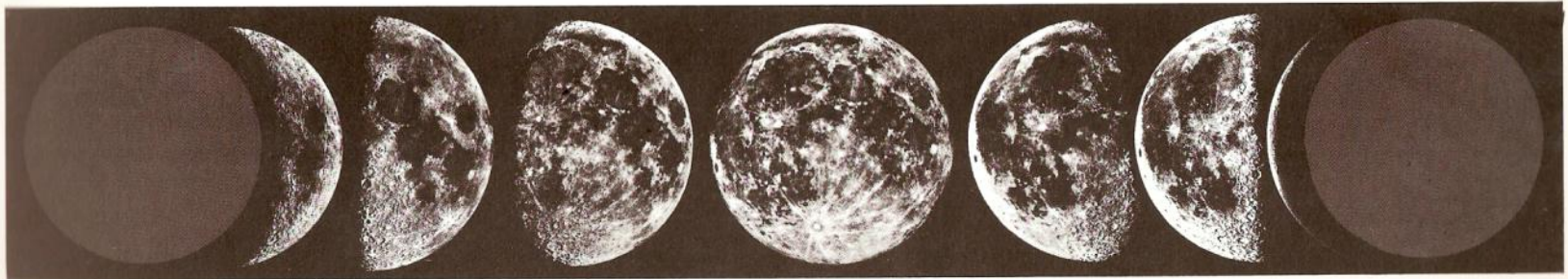
Luna Nueva

Luna en fases crecientes

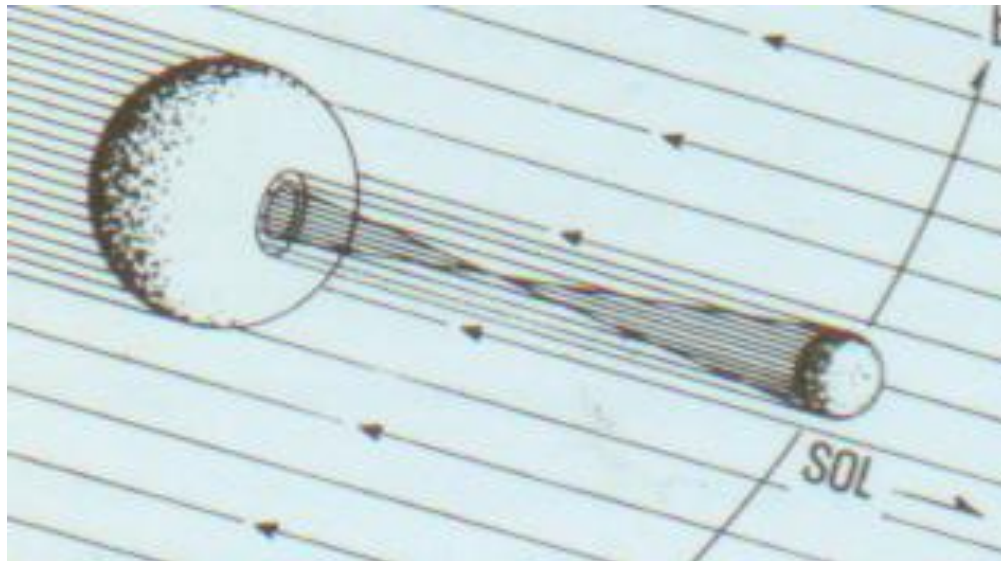
Luna Llena

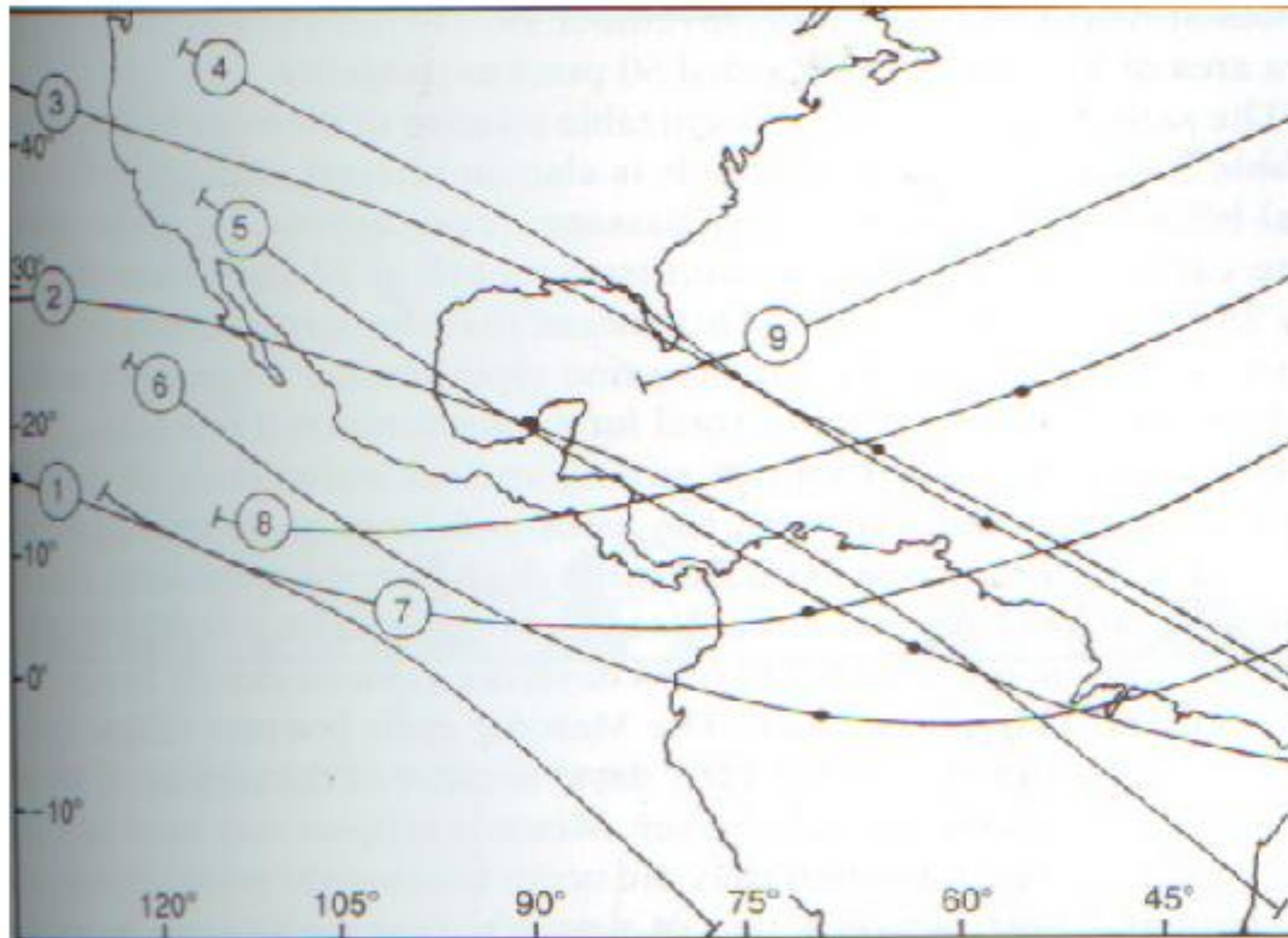
Luna en fases decrecientes

Luna Nueva

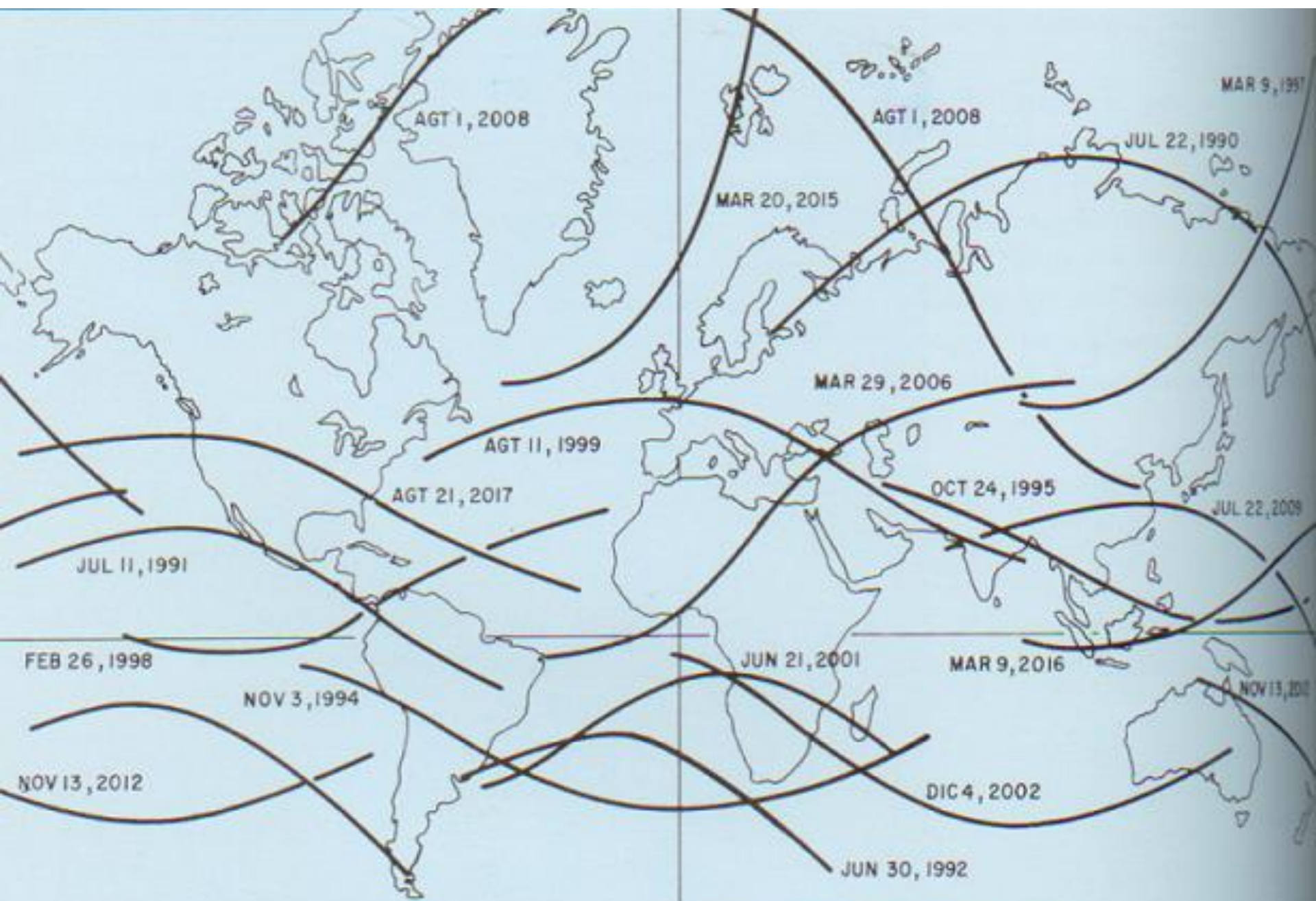


Las fases lunares









ECLIPSES TOTALES 1990 - 2017



At the equinoxes, the rising and setting Sun creates a snake-like shadow that slithers along the serpent-headed banisters of the Castillo, a huge stone pyramid built by the Toltecs at Chichen Itza, Mexico.

PHOTO BY JAMES HARRIS FOR NATIONAL GEOGRAPHIC



Every June 21, the rising Sun aligns with this special stone in Stonehenge, a circle of giant rock slabs erected by people in southern England 5,000 years ago.



An aerial view shows one of many stone circles on high plateaus along the United States - Canada border. Early peoples long ago may have used these circles to sight the rising and setting positions of the Sun and important stars.

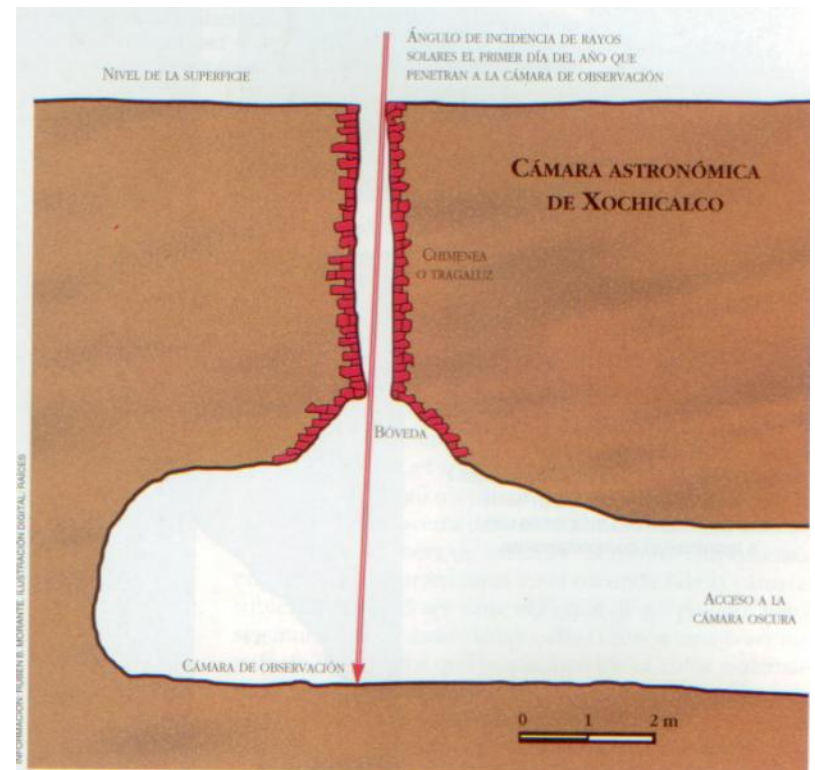


Ancestral Pueblo Indians in New Mexico carved a large spiral into a stone slab atop Fajada Butte. At midday on the June solstice, a shaft of sunlight shines through a rock slit onto the center of the large spiral. Two shafts of light frame this spiral at the December solstice.

Winter Solstice  
December 21 9:16:15AM

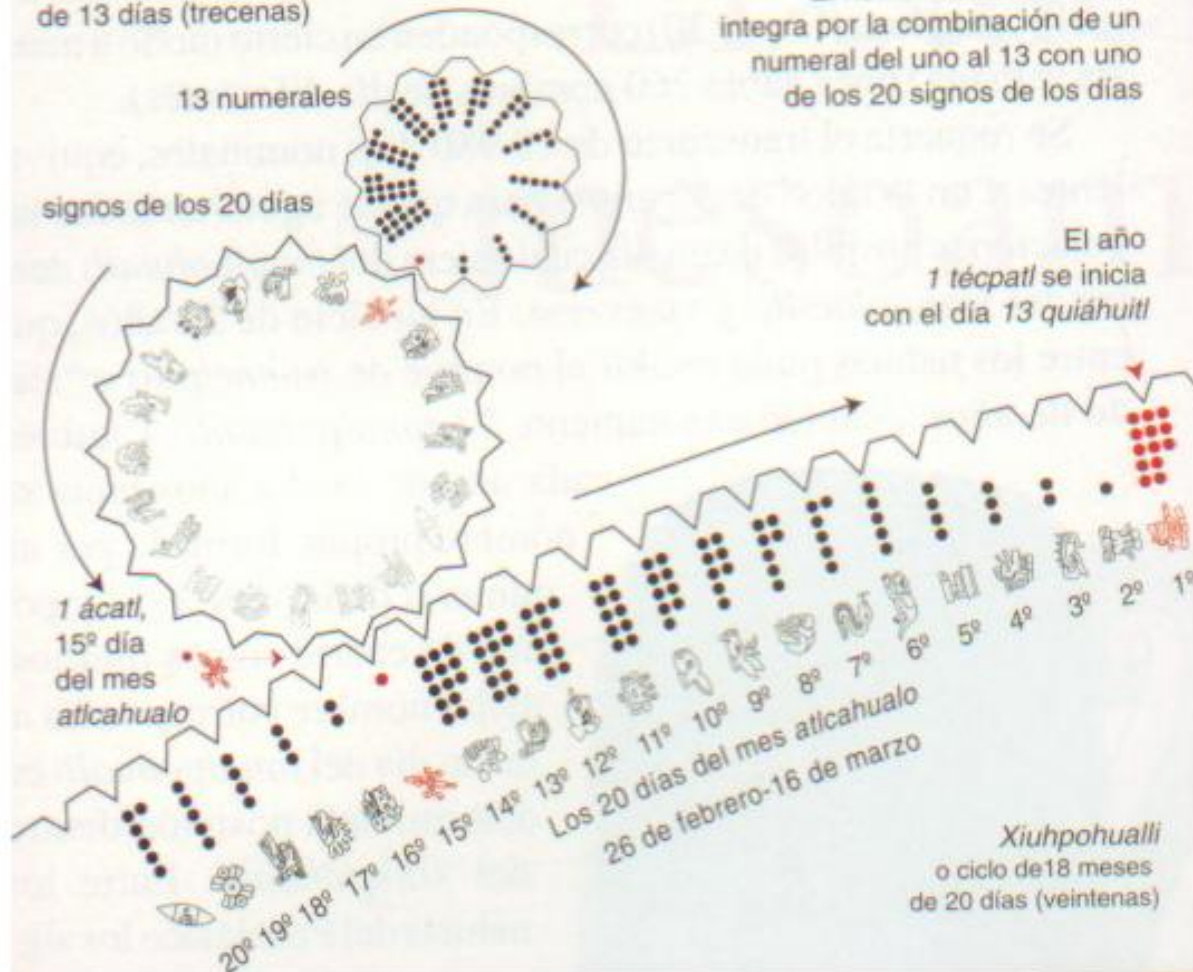






*Tonalpohualli*  
o ciclo de 20 periodos  
de 13 días (treceñas)

El nombre de cada día se  
integra por la combinación de un  
numeral del uno al 13 con uno  
de los 20 signos de los días

















SURINAM

Wayana

•• Rio Trombetas

R. Amazon

•• Ilhé de Caviana

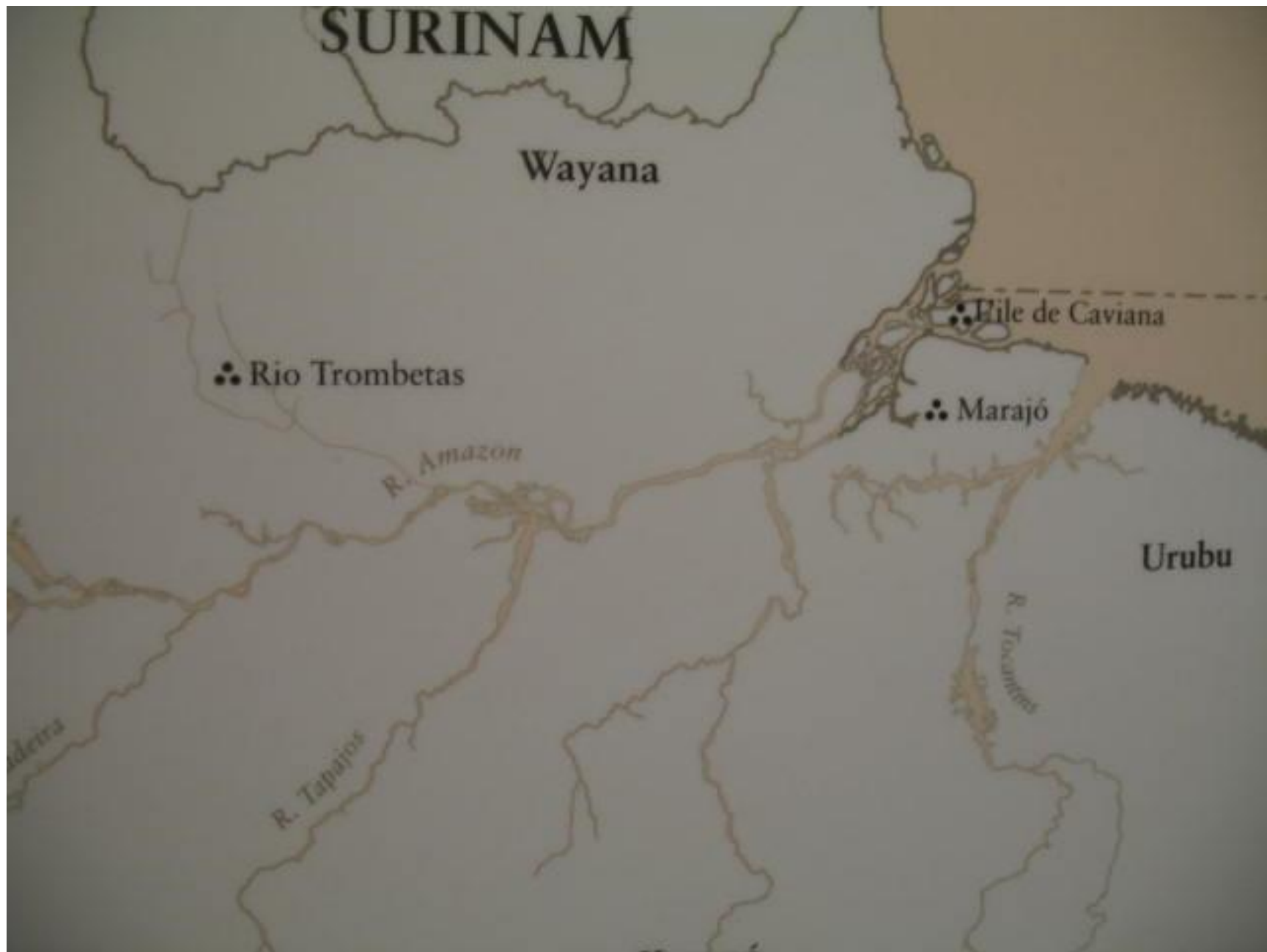
•• Marajó

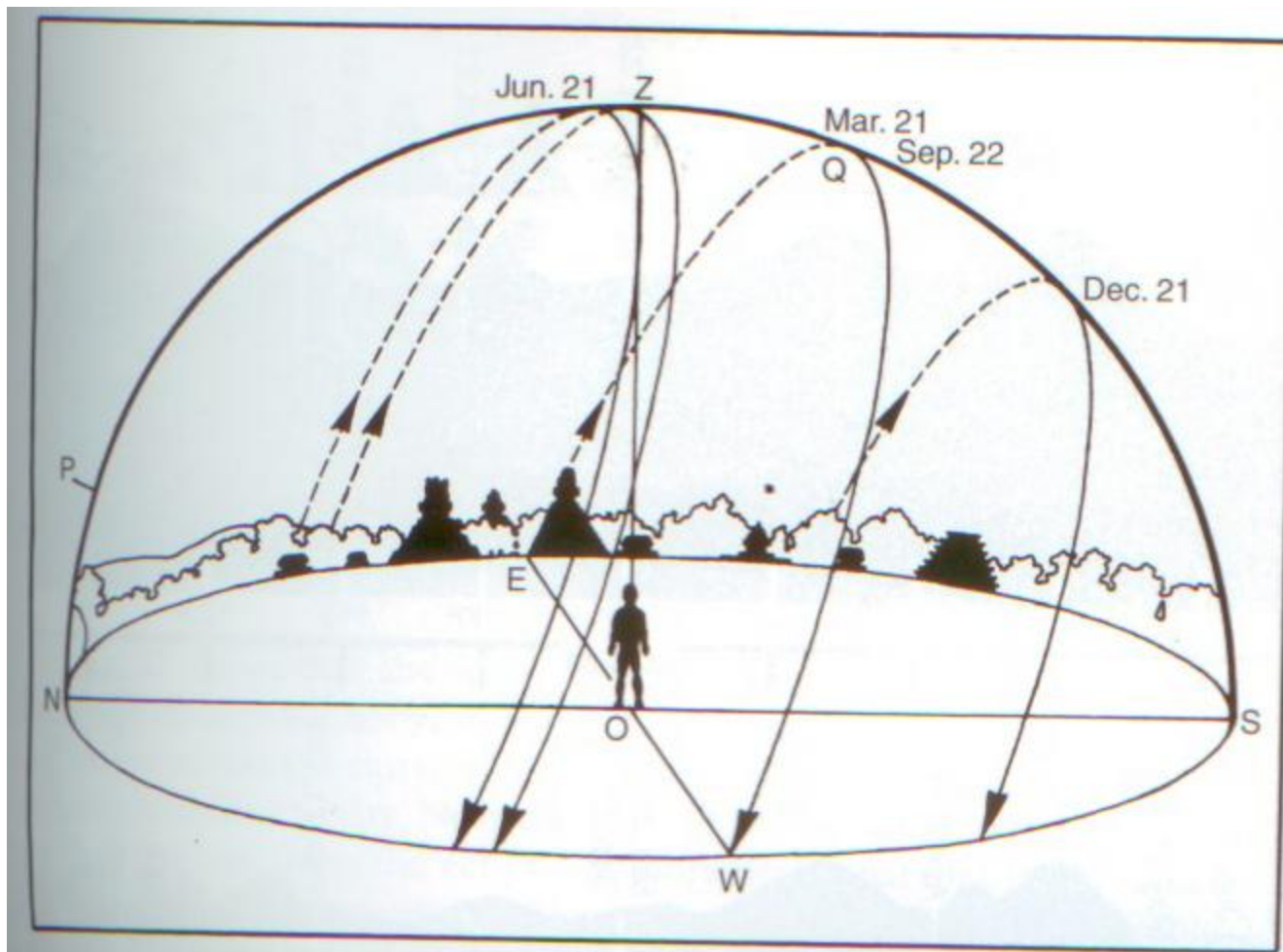
Urubu

R. Tocantins

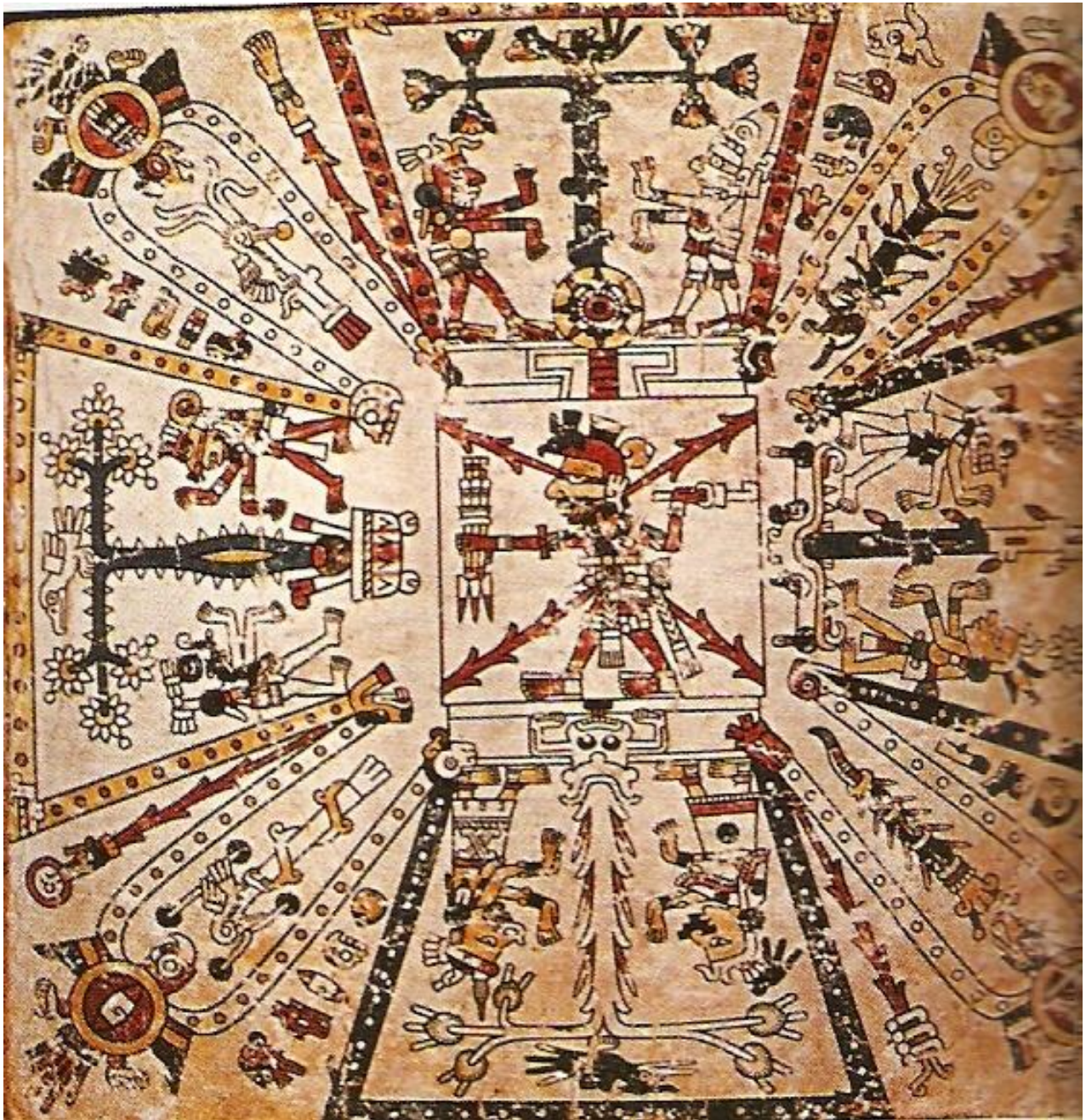
R. Tapajós

Iderra



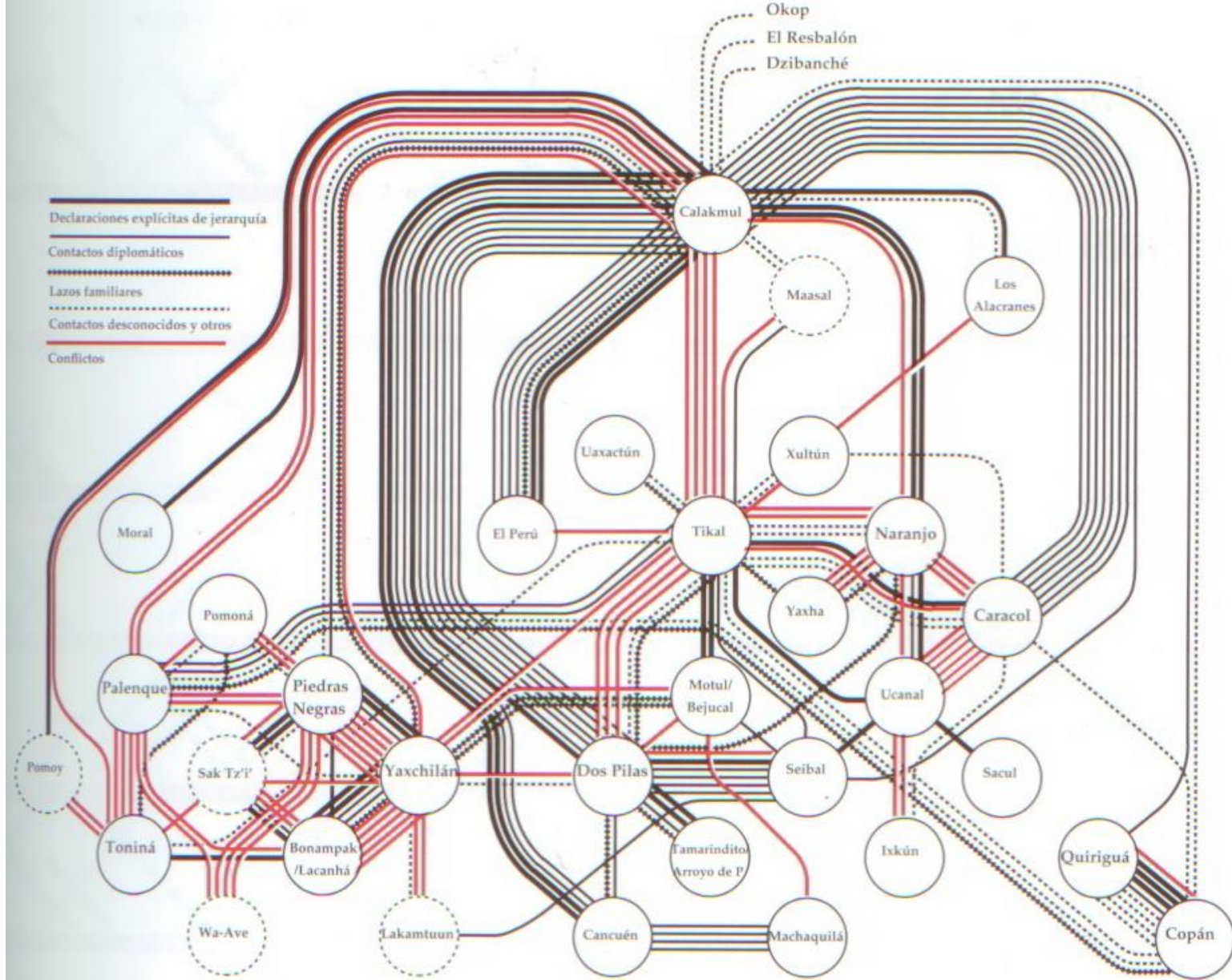












Simon Martin, Nikolai Grube, **Crónica de los reyes y reinas mayas, La primera historia de las dinastías mayas**





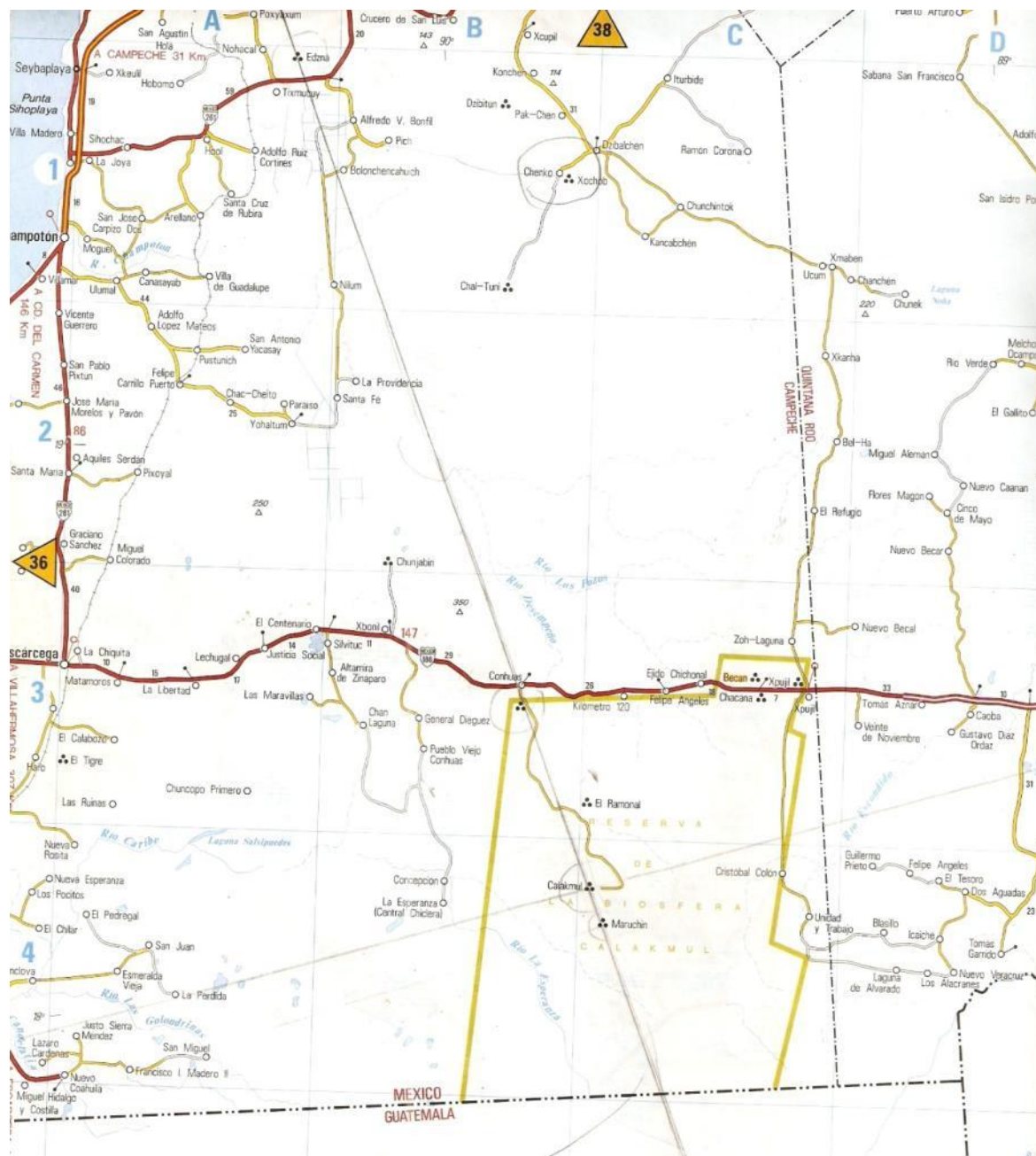




- Ruta marítima de comercio
- Ruta de comercio terrestre
- Frontera regional maya
- Puertos mayas
- Zonas arqueológicas

- PRODUCTOS
- |           |              |
|-----------|--------------|
| Sal       | Basalto      |
| Jade      | Cerámica     |
| Cacao     | Herramientas |
| Obsidiana | Piel         |
| Algodón   | Miel         |
| Plumas    |              |

















Wakah-Chan

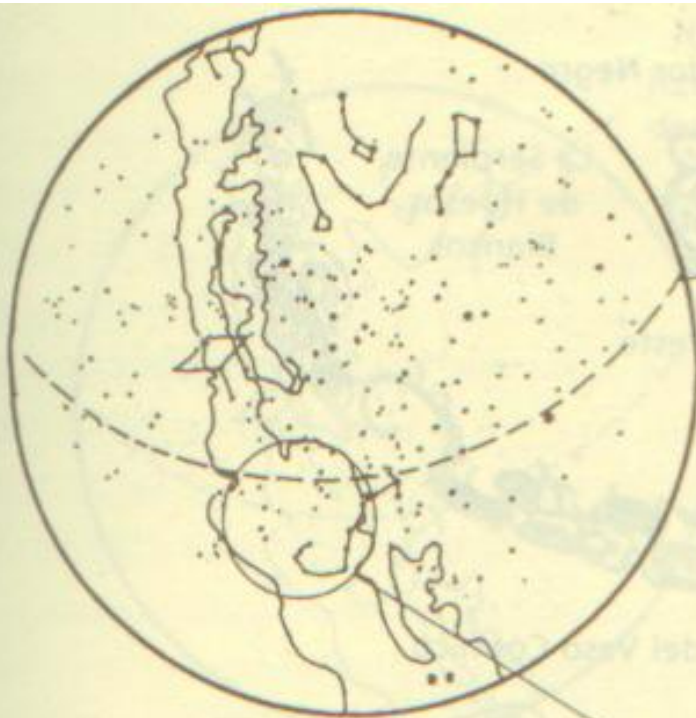
ecliptica

Dios Cuatripartita

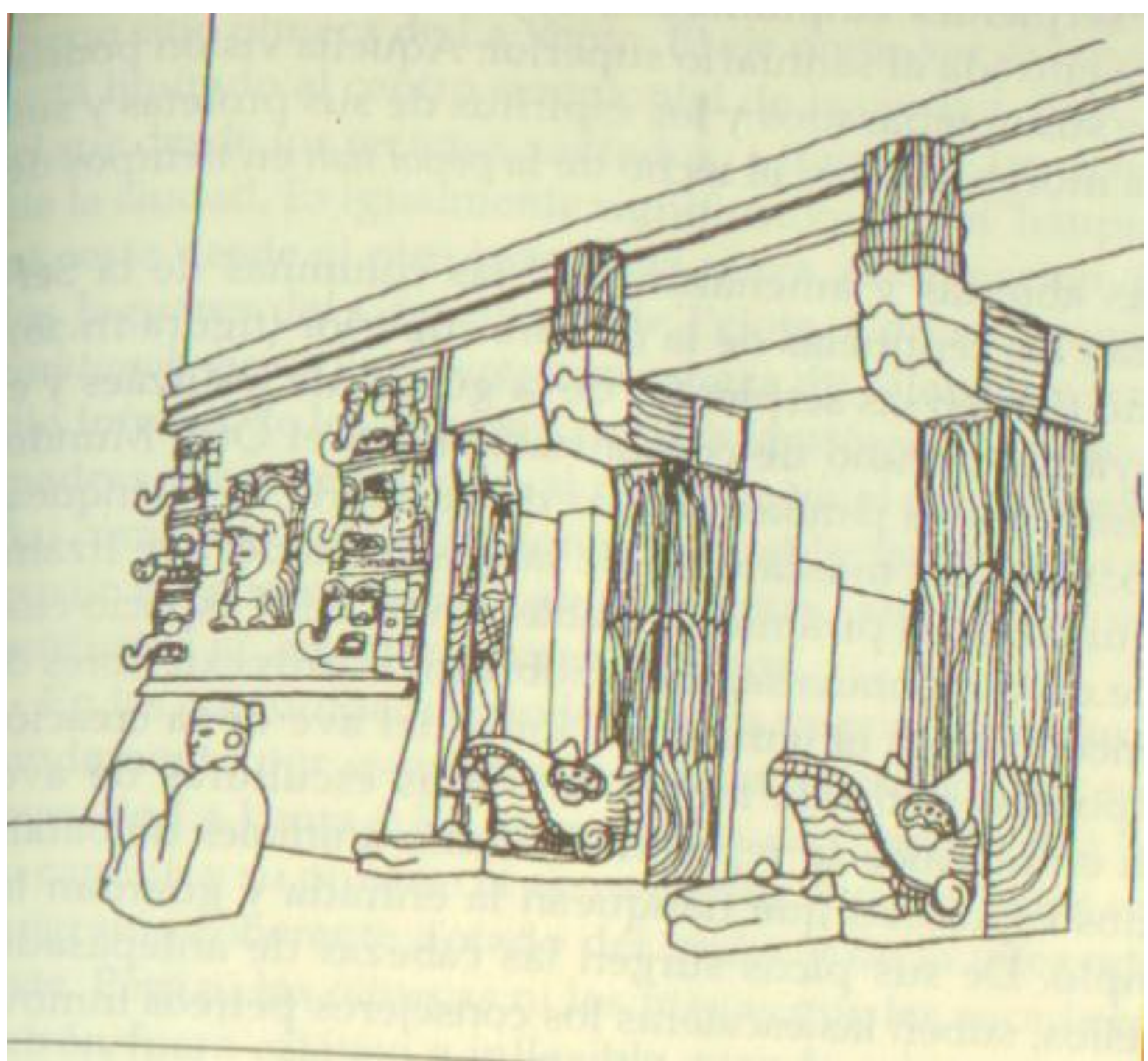
Vía Láctea

región del Dios Cuatripartita

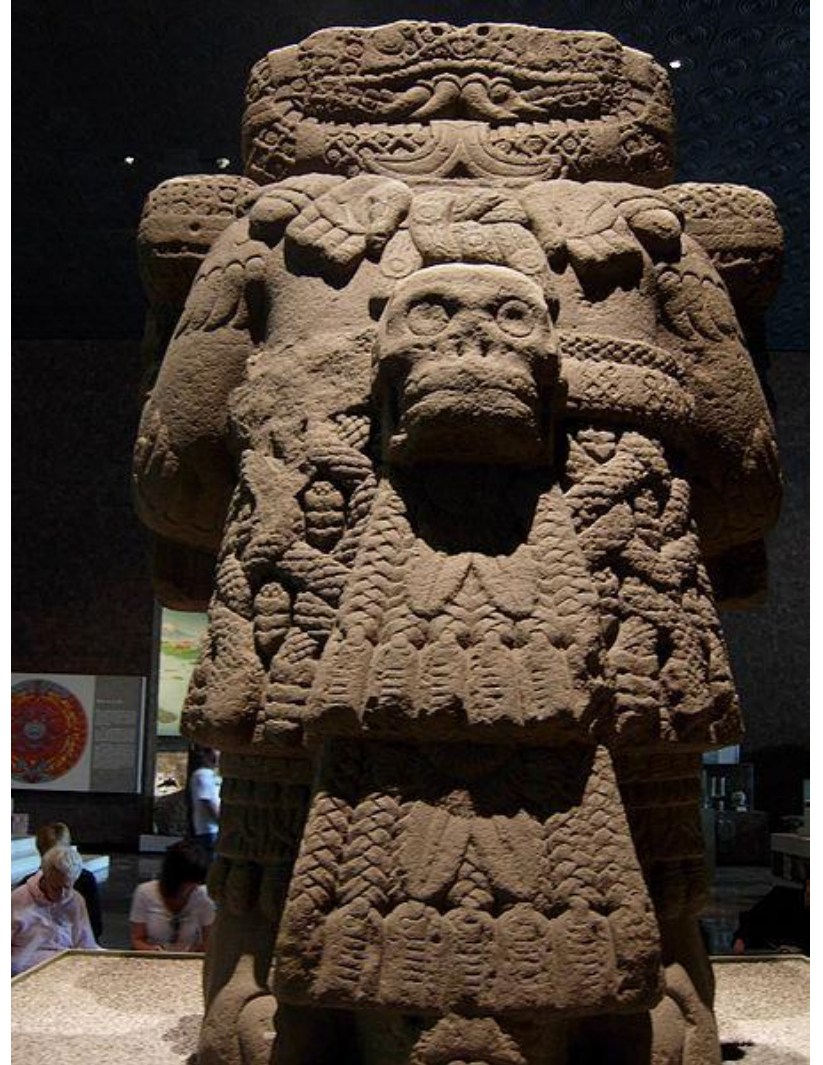
Monstruo Cósmico













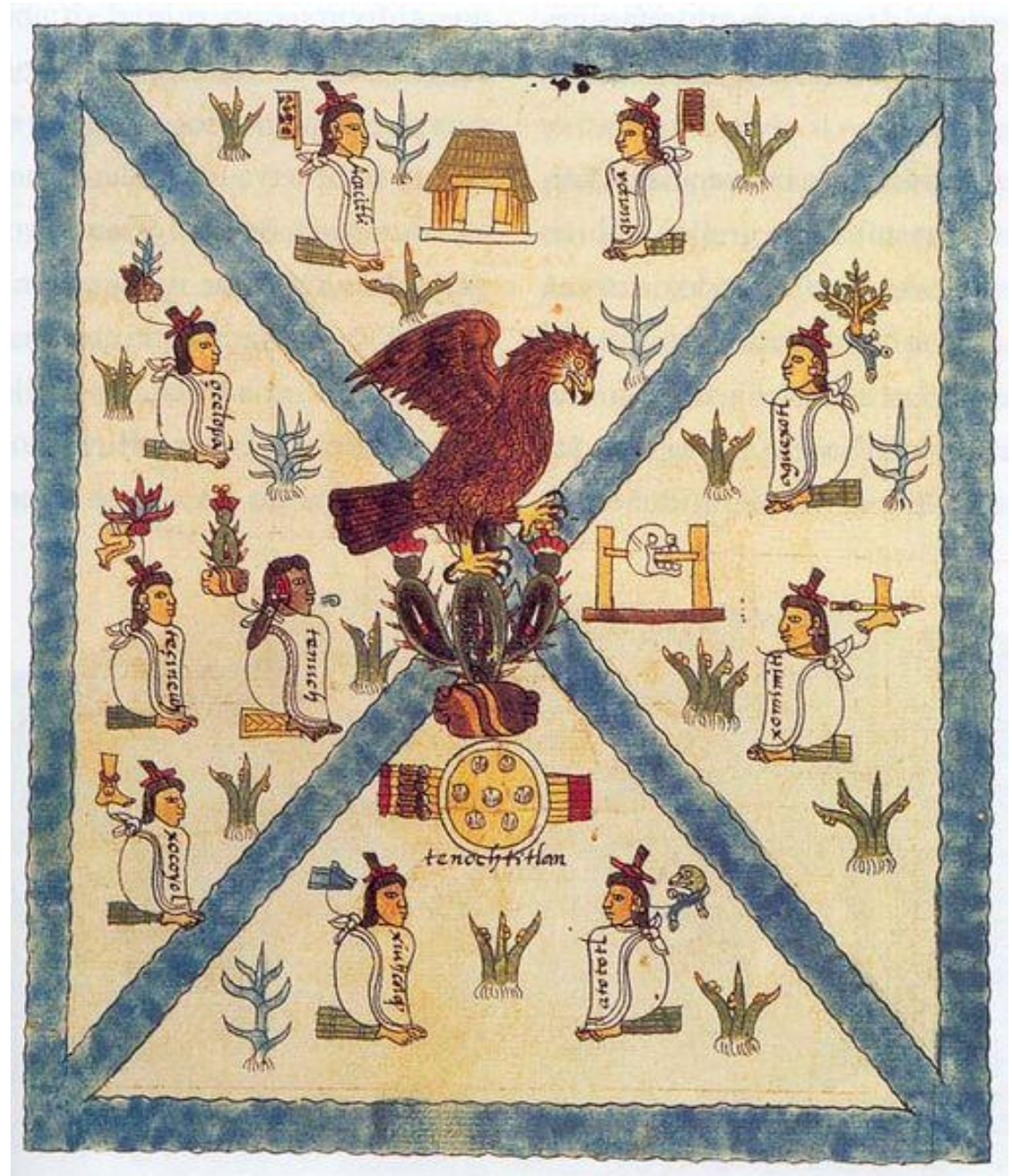








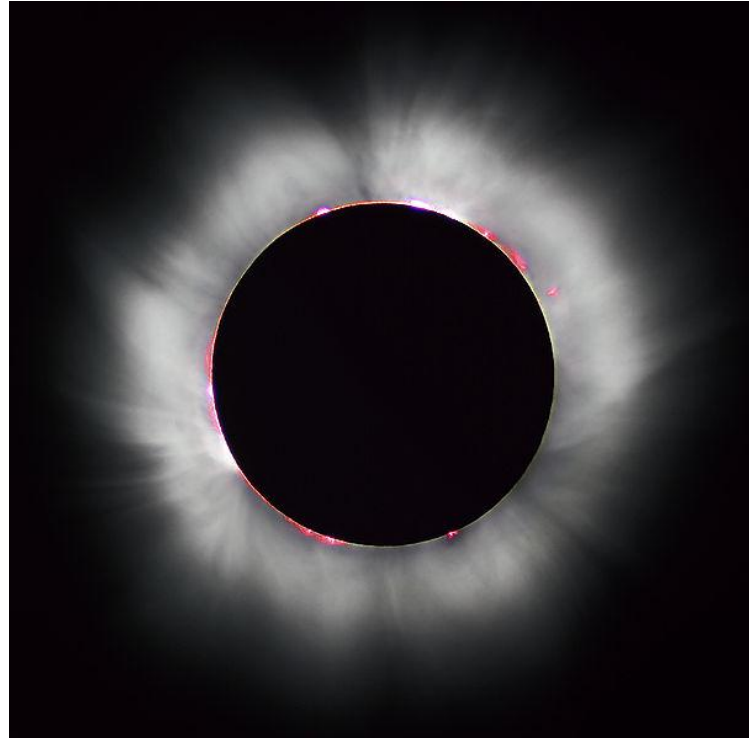
donde se  
presenta el  
glifo de  
Tenochtitlán al  
lado de los  
glifos del  
Anahuac





# 1325: año 2 Calli

## *Fundación de México Tenochtitlan*



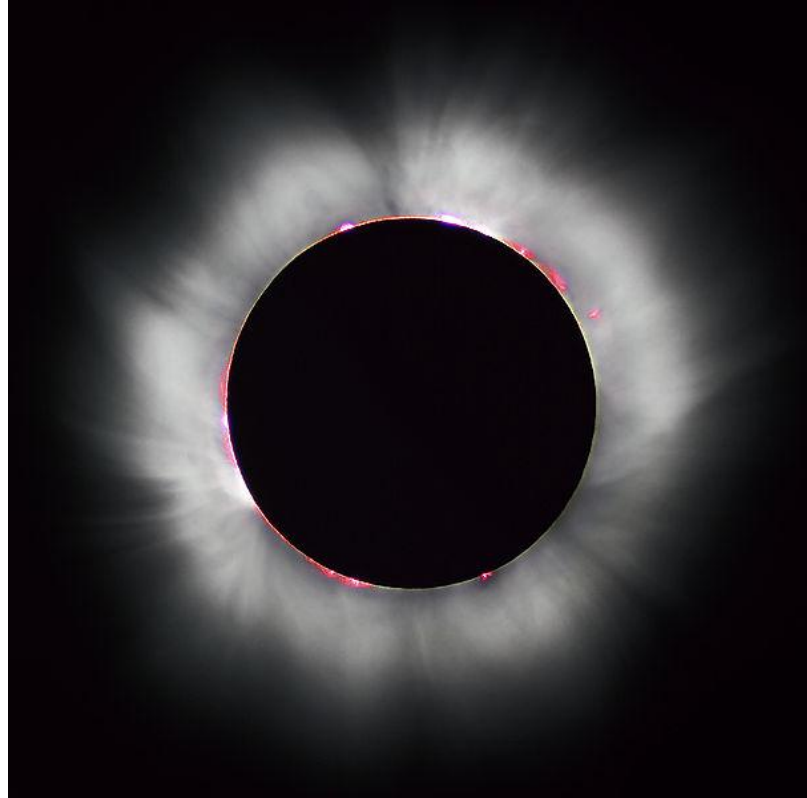
...ese año el **21 de abril**, durante cuatro minutos, **el sol se eclipsó** totalmente y la noche cayó inesperadamente sobre el valle de Anahuac...\*

\* Jesús Galindo Trejo, "Alineación solar del Templo Mayor de Tenochtitlan", Arqueología mexicana, Vol. VII, Núm. 41, 2000



# Mexicco:

Lugar en el ombligo de la Luna (Tibón)



Metz(tli)xih(tli): metzxih, Mexie, el sumidero (de la Serna)  
El lago de Texcoco era llamado Metzialapan, canal o lago de la  
luna (Cristóbal del Castillo)  
Atlixicco : agua-luna-ombligo (Chimalpain)





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